

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P995635

Luminaire Tested: 24D3X-LP-WD-60-L850.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-60-L850.ies
Description: 2x4 D3X-LP AT 6000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

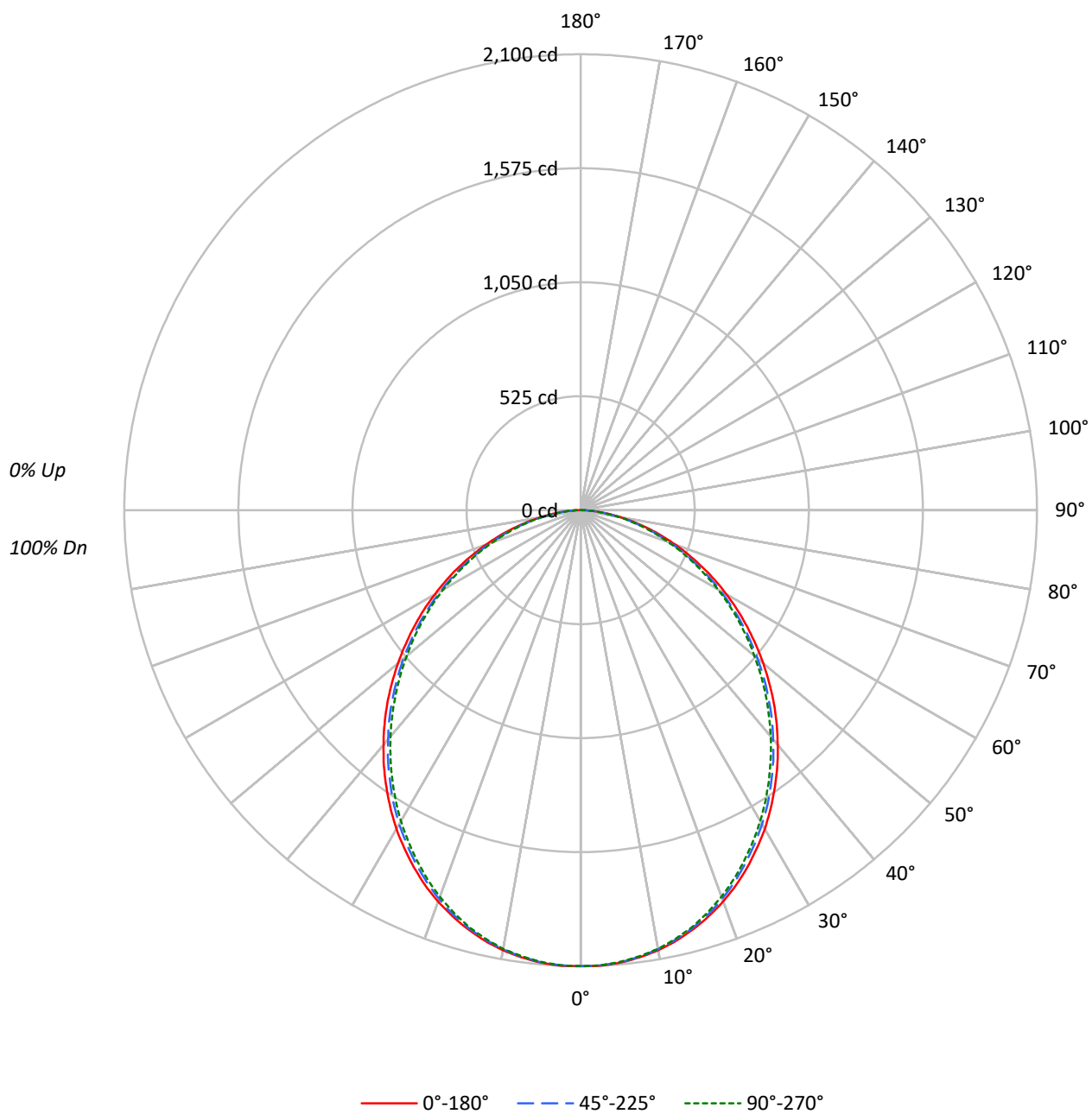
Lumens per Lamp: N/A
Luminaire Lumens: 5296.2 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2826	2826	2826
5°	2826	2823	2821
10°	2813	2806	2803
15°	2785	2775	2768
20°	2747	2729	2713
25°	2695	2665	2644
30°	2635	2594	2570
35°	2560	2511	2483
40°	2479	2421	2391
45°	2394	2326	2292
50°	2296	2226	2186
55°	2195	2118	2079
60°	2082	1999	1962
65°	1960	1868	1830
70°	1823	1725	1683
75°	1655	1562	1536
80°	1433	1356	1364
85°	1183	1167	1090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2394 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	3.7
10°-20°	561.5	10.6
20°-30°	827.4	15.6
30°-40°	957.9	18.1
40°-50°	945.7	17.9
50°-60°	810.0	15.3
60°-70°	585.6	11.1
70°-80°	322.8	6.1
80°-90°	86.9	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1587.3	30.0
0°-40°	2545.2	48.1
0°-60°	4300.9	81.2
0°-90°	5296.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5296.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	2092	2092	2090	2089	2089	199
15°	1999	1997	1992	1989	1987	564
25°	1815	1810	1795	1786	1781	836
35°	1558	1548	1529	1516	1512	974
45°	1258	1241	1222	1210	1204	969
55°	936	918	903	890	886	837
65°	616	602	587	578	575	610
75°	318	308	300	299	295	338
85°	77	77	76	71	71	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2100.5	2100.5	2100.5	2100.5	2100.5
2.5°	2100.5	2100.5	2098.5	2098.5	2098.5
5°	2092.5	2091.5	2090.5	2088.6	2088.6
7.5°	2077.6	2077.6	2074.6	2074.6	2072.6
10°	2058.7	2056.7	2053.7	2053.7	2051.8
12.5°	2031.9	2029.9	2025.9	2024.9	2021.9
15°	1999.0	1997.1	1992.1	1989.1	1987.1
17.5°	1961.3	1958.3	1952.3	1947.3	1943.4
20°	1918.5	1914.5	1905.6	1899.6	1894.6
22.5°	1869.8	1865.8	1852.8	1845.9	1840.9
25°	1815.1	1810.1	1795.2	1786.2	1781.2
27.5°	1756.4	1750.4	1733.5	1723.6	1718.6
30°	1695.7	1686.8	1669.9	1657.9	1653.9
32.5°	1628.1	1619.1	1602.2	1588.3	1584.3
35°	1558.5	1548.5	1528.6	1515.7	1511.7
37.5°	1486.9	1473.9	1456.0	1443.1	1437.1
40°	1411.3	1398.3	1378.4	1364.5	1361.5
42.5°	1335.7	1319.8	1302.9	1288.9	1283.0
45°	1258.1	1241.2	1222.3	1210.4	1204.4
47.5°	1176.6	1160.6	1143.7	1129.8	1124.8
50°	1097.0	1080.1	1063.2	1050.2	1044.3
52.5°	1015.4	998.5	982.6	971.7	965.7
55°	935.9	918.0	903.1	890.1	886.1
57.5°	855.3	839.4	822.5	810.6	807.6
60°	773.8	759.8	742.9	732.0	729.0
62.5°	695.2	681.3	665.4	654.4	649.4
65°	615.6	601.7	586.8	577.8	574.9
67.5°	538.1	525.1	512.2	503.2	501.3
70°	463.5	450.5	438.6	430.6	427.7
72.5°	388.9	379.9	368.0	363.0	360.0
75°	318.3	308.3	300.4	299.4	295.4
77.5°	249.6	248.6	235.7	233.7	233.7
80°	185.0	182.0	175.0	173.1	176.0
82.5°	127.3	125.3	121.3	120.3	119.3
85°	76.6	76.6	75.6	70.6	70.6
87.5°	34.8	33.8	32.8	33.8	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)